

CROSSROADS PARK FCD GAGE ID# 6623

STATION DESCRIPTION

LOCATION – The gage site is located in the town of Gilbert near the intersection of Warner and Greenfield Roads. The site can be accessed through the park which has access from Greenfield Road or via the Eastern Canal service road from Warner Road. The canal service road leads most easily to the pumphouse platform where the gage is located. Latitude N33° 19' 40", Longitude W111° 44' 49". Located in the NW1/4 NW1/4 SE1/4 S21 T1S R6E in the Higley 7.5-minute quadrangle.

ESTABLISHMENT – The gage was installed on December 18, 1995.

DRAINAGE AREA – 15.7 mi²

GAGE – The gage is a pressure transducer type instrument located in the well shaft into a larger rectangular concrete chamber from which the basin is evacuated by large pumps. The concrete chamber is fed by a 48-inch diameter intake pipe from the lake just east of the gage. The PT is at gage height 1.33 feet, or 1,248.00 feet M.S.L.

There is no staff gage at this location.

There is no crest gage at this location.

ZERO GAGE HEIGHT - is defined as 1,246.67 feet M.S.L., which is defined as the normal aesthetic water level of the lake.

HISTORY – No previous history at this location.

REFERENCE MARKS –

RP1 is the finished floor of the concrete pad of the well shaft. Elevation = 26.33 feet gage height or 1,273.00 feet M.S.L. from As-Built.

CHANNEL AND CONTROL – The basin has no gravity outflow and is evacuated by several pumps. There is no spillway per se. However, if water levels rose to the top of the basin, flow would spill into the canal.

RATING – The rating is a stage-storage relationship, and is Rating #1. The rating is from the design plans.

DISCHARGE MEASUREMENTS – None

POINT OF ZERO FLOW – The PZF is where the basin begins to overtop. This elevation is 23.33 feet gage height, or 1,270.00 feet M.S.L.

FLOODS – An impoundment of 22.6 acre-feet and 2.90 feet gage height occurred on March 17, 2006. An impoundment of 17.1 acre-feet and 2.28 feet gage height occurred on February 24, 2005. An impoundment of 16.3 acre-feet and 2.13 feet gage height occurred on September 1, 1999. An impoundment of 11.6 acre-feet and 1.56 feet gage height occurred on November 7, 2000.

REGULATION – The basin regulates flows into storm drain facilities.

DIVERSIONS – None

ACCURACY – Fair

JUSTIFICATION – Monitor Crossroads Basin for town of Gilbert.

UPDATE – July 28, 2011
 D E Gardner